

## SEQUENCE LISTING

<110> The Regents of the University of California  
Chi-Hong B. Chen  
Ralf Landgraf

<120> APTAMERS TO HUMAN EPIDERMAL GROWTH  
FACTOR RECEPTOR-3

<130> 30448108WOU1

<160> 20

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 4026

<212> DNA

<213> Homo Sapiens

<400> 1

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&lt;210&gt; 2

&lt;211&gt; 1342

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 2

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Leu Asn Gly Leu Ser Val Thr Gly Asp Ala Glu Asn Gln Tyr Gln Thr
      35           40           45
Leu Tyr Lys Leu Tyr Glu Arg Cys Glu Val Val Met Gly Asn Leu Glu
      50           55           60
Ile Val Leu Thr Gly His Asn Ala Asp Leu Ser Phe Leu Gln Trp Ile
      65           70           75           80
Arg Glu Val Thr Gly Tyr Val Leu Val Ala Met Asn Glu Phe Ser Thr
      85           90           95
Leu Pro Leu Pro Asn Leu Arg Val Val Arg Gly Thr Gln Val Tyr Asp
      100          105          110
Gly Lys Phe Ala Ile Phe Val Met Leu Asn Tyr Asn Thr Asn Ser Ser
      115          120          125
His Ala Leu Arg Gln Leu Arg Leu Thr Gln Leu Thr Glu Ile Leu Ser
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Gly Gly Val Tyr Ile Glu Lys Asn Asp Lys Leu Cys His Met Asp Thr
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Ile Asp Trp Arg Asp Ile Val Arg Asp Arg Asp Ala Glu Ile Val Val

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Gln Cys Cys His Asp Glu Cys Ala Gly Gly Cys Ser Gly Pro Gln Asp
225      230      235      240
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Pro Arg Cys Pro Gln Pro Leu Val Tyr Asn Lys Leu Thr Phe Gln Leu
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Ser Cys Pro His Asn Phe Val Val Asp Gln Thr Ser Cys Val Arg Ala
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Glu Pro Cys Gly Gly Leu Cys Pro Lys Ala Cys Glu Gly Thr Gly Ser
325      330      335
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385      390      395      400
Ser Trp Pro Pro His Met His Asn Phe Ser Val Phe Ser Asn Leu Thr
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Thr Ile Gly Gly Arg Ser Leu Tyr Asn Arg Gly Phe Ser Leu Leu Ile
420      425      430
Met Lys Asn Leu Asn Val Thr Ser Leu Gly Phe Arg Ser Leu Lys Glu
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His Glu Ala Glu Cys Phe Ser Cys His Pro Glu Cys Gln Pro Met Gly
545      550      555      560
Gly Thr Ala Thr Cys Asn Gly Ser Gly Ser Asp Thr Cys Ala Gln Cys
565      570      575
Ala His Phe Arg Asp Gly Pro His Cys Val Ser Ser Cys Pro His Gly
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Val Leu Gly Ala Lys Gly Pro Ile Tyr Lys Tyr Pro Asp Val Gln Asn
595      600      605
Glu Cys Arg Pro Cys His Glu Asn Cys Thr Gln Gly Cys Lys Gly Pro
610      615      620
Glu Leu Gln Asp Cys Leu Gly Gln Thr Leu Val Leu Ile Gly Lys Thr
625      630      635      640

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His Leu Thr Met Ala Leu Thr Val Ile Ala Gly Leu Val Val Ile Phe  
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 660 665 670  
 Asn Lys Arg Ala Met Arg Arg Tyr Leu Glu Arg Gly Glu Ser Ile Glu  
 675 680 685  
 Pro Leu Asp Pro Ser Glu Lys Ala Asn Lys Val Leu Ala Arg Ile Phe  
 690 695 700  
 Lys Glu Thr Glu Leu Arg Lys Leu Lys Val Leu Gly Ser Gly Val Phe  
 705 710 715 720  
 Gly Thr Val His Lys Gly Val Trp Ile Pro Glu Gly Glu Ser Ile Lys  
 725 730 735  
 Ile Pro Val Cys Ile Lys Val Ile Glu Asp Lys Ser Gly Arg Gln Ser  
 740 745 750  
 Phe Gln Ala Val Thr Asp His Met Leu Ala Ile Gly Ser Leu Asp His  
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 Ala His Ile Val Arg Leu Leu Gly Leu Cys Pro Gly Ser Ser Leu Gln  
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 Gln Ile Ala Lys Gly Met Tyr Tyr Leu Glu Glu His Gly Met Val His  
 820 825 830  
 Arg Asn Leu Ala Ala Arg Asn Val Leu Leu Lys Ser Pro Ser Gln Val  
 835 840 845  
 Gln Val Ala Asp Phe Gly Val Ala Asp Leu Leu Pro Pro Asp Asp Lys  
 850 855 860  
 Gln Leu Leu Tyr Ser Glu Ala Lys Thr Pro Ile Lys Trp Met Ala Leu  
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 Tyr Gly Val Thr Val Trp Glu Leu Met Thr Phe Gly Ala Glu Pro Tyr  
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 Val Ile Lys Arg Glu Ser Gly Pro Gly Ile Ala Pro Gly Pro Glu Pro  
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 Gly Ser Ser Glu Arg Cys Pro Arg Pro Val Ser Leu His Pro Met Pro  
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Thr Pro Ser Ser Arg Glu Gly Thr Leu Ser Ser Val Gly Leu Ser Ser						
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Val Leu Gly Thr Glu Glu Asp Glu Asp Glu Glu Tyr Glu Tyr Met						
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Asn Arg Arg Arg Arg His Ser Pro Pro His Pro Pro Arg Pro Ser Ser						
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Leu Glu Glu Leu Gly Tyr Glu Tyr Met Asp Val Gly Ser Asp Leu Ser						
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Ala Ser Leu Gly Ser Thr Gln Ser Cys Pro Leu His Pro Val Pro Ile						
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Met Pro Thr Ala Gly Thr Thr Pro Asp Glu Asp Tyr Glu Tyr Met Asn						
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Arg Gln Arg Asp Gly Gly Pro Gly Gly Asp Tyr Ala Ala Met Gly						
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Ala Cys Pro Ala Ser Glu Gln Gly Tyr Glu Glu Met Arg Ala Phe Gln						
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Gly Pro Gly His Gln Ala Pro His Val His Tyr Ala Arg Leu Lys Thr						
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Leu Arg Ser Leu Glu Ala Thr Asp Ser Ala Phe Asp Asn Pro Asp Tyr						
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&lt;210&gt; 3

&lt;211&gt; 1935

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 3

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&lt;210&gt; 4

&lt;211&gt; 645

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 4

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Pro Ala Leu Pro Pro Arg Leu Lys Glu Met Lys Ser Gln Glu Ser Ala
 35          40          45
Ala Gly Ser Lys Leu Val Leu Arg Cys Glu Thr Ser Ser Glu Tyr Ser
 50          55          60
Ser Leu Arg Phe Lys Trp Phe Lys Asn Gly Asn Glu Leu Asn Arg Lys
 65          70          75          80
Asn Lys Pro Gln Asn Ile Lys Ile Gln Lys Lys Pro Gly Lys Ser Glu
 85          90          95
Leu Arg Ile Asn Lys Ala Ser Leu Ala Asp Ser Gly Glu Tyr Met Cys
 100          105          110
Lys Val Ile Ser Lys Leu Gly Asn Asp Ser Ala Ser Ala Asn Ile Thr
 115          120          125
Ile Val Glu Ser Asn Glu Ile Ile Thr Gly Met Pro Ala Ser Thr Glu
 130          135          140
Gly Ala Tyr Val Ser Ser Glu Ser Pro Ile Arg Ile Ser Val Ser Thr
 145          150          155          160
Glu Gly Ala Asn Thr Ser Ser Ser Thr Ser Thr Ser Thr Thr Gly Thr
 165          170          175
Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
 180          185          190
Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
 195          200          205
Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr
 210          215          220
Val Met Ala Ser Phe Tyr Lys His Leu Gly Ile Glu Phe Met Glu Ala
 225          230          235          240
Glu Glu Leu Tyr Gln Lys Arg Val Leu Thr Ile Thr Gly Ile Cys Ile
 245          250          255
Ala Leu Leu Val Val Gly Ile Met Cys Val Val Ala Tyr Cys Lys Thr
 260          265          270
Lys Lys Gln Arg Lys Lys Leu His Asp Arg Leu Arg Gln Ser Leu Arg
 275          280          285
Ser Glu Arg Asn Asn Met Met Asn Ile Ala Asn Gly Pro His His Pro
 290          295          300
Asn Pro Pro Pro Glu Asn Val Gln Leu Val Asn Gln Tyr Val Ser Lys
 305          310          315          320
Asn Val Ile Ser Ser Glu His Ile Val Glu Arg Glu Ala Glu Thr Ser
 325          330          335

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Phe Ser Thr Ser His Tyr Thr Ser Thr Ala His His Ser Thr Thr Val  
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 Thr Gln Thr Pro Ser His Ser Trp Ser Asn Gly His Thr Glu Ser Ile  
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 Leu Ser Glu Ser His Ser Val Ile Val Met Ser Ser Val Glu Asn Ser  
                   370                                  375                  380  
 Arg His Ser Ser Pro Thr Gly Gly Pro Arg Gly Arg Leu Asn Gly Thr  
 385                                  390                                  395                  400  
 Gly Gly Pro Arg Glu Cys Asn Ser Phe Leu Arg His Ala Arg Glu Thr  
                                   405                                  410                  415  
 Pro Asp Ser Tyr Arg Asp Ser Pro His Ser Glu Arg Tyr Val Ser Ala  
                                   420                                  425                  430  
 Met Thr Thr Pro Ala Arg Met Ser Pro Val Asp Phe His Thr Pro Ser  
                                   435                                  440                  445  
 Ser Pro Lys Ser Pro Pro Ser Glu Met Ser Pro Pro Val Ser Ser Met  
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 Thr Val Ser Met Pro Ser Met Ala Val Ser Pro Phe Met Glu Glu Glu  
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 Arg Pro Leu Leu Leu Val Thr Pro Pro Arg Leu Arg Glu Lys Lys Phe  
                                   485                                  490                  495  
 Asp His His Pro Gln Gln Phe Ser Ser Phe His His Asn Pro Ala His  
                                   500                                  505                  510  
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 Glu Tyr Glu Thr Thr Gln Glu Tyr Glu Pro Ala Gln Glu Pro Val Lys  
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 Lys Leu Ala Asn Ser Arg Arg Ala Lys Arg Thr Lys Pro Asn Gly His  
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 Asn Ser Glu Ser Glu Thr Glu Asp Glu Arg Val Gly Glu Asp Thr Pro  
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&lt;210&gt; 5

&lt;211&gt; 3765

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 5

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&lt;211&gt; 1255

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 6

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Asp Leu Gly Pro Ala Ser Pro Leu Asp Ser Thr Phe Tyr Arg Ser Leu
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Leu Glu Asp Asp Asp Met Gly Asp Leu Val Asp Ala Glu Glu Tyr Leu
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&lt;213&gt; Aptamer

&lt;400&gt; 20

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